"-Restoration and Improvements of Balance roads of Chowdeshwari layout, Mariyappa layout, Muniraju layout, jyothinagara 1st main road, Deo Marvel layout, Sainagara phase-1 and surrounding areas in ward no - 03 of Yelahanka New town Sub division (PACKAGE NO-13)."

Quality Control Reports

(Book No.– 02)

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Certificate No.: TC-5548

QC ABSTRACT

AME OF WORK: Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa yout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and rrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Fness by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	66.38	10	10
9	GSB	SIEVE ANALYSIS	One Test		1	1
10	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
11	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
12	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
13	TACK COAT	Rate of spread	One Test		1	1
14	Premix Carpet	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
15	Thermoplastic Compound	Colour	One Test		1	1
		Softening Point	One Test		1	1
		Luminance Factor	One Test		1	1
		Cracking Resistance	One Test		1	1
		Skid Resistance	One Test		1	1
		Yellow Index (For White Thermoplastic Plant)	One Test		1	1
		Drying Time	One Test		1	1
		Binder Content	One Test		1	1
		Glass Beads Content	One Test		1	1

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-06-21-35** **Date: 25-03-22**

Project Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

Customer's Reference : BBMP/EE/YNK D/EPMT - 08/W O/117/2021-22

Date of Receipt : 21-03-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11) 1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method,
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 22-03-22

Environmental Conditions during test : Temperature 26°C
Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	-
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	-
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (i.e Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-06-21-35** **Date: 19-04-22**
Project Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
Agency	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
Date of Receipt	:	21-03-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	22-03-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

ID : CP-2022-06-21-35

Date: 25-03-22

ject Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

ncy : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

tomer's Reference : BBMP/EE/YNK D/EPMT - 08/W.O/117/2021-22

e of Receipt : 21-03-22

ıple Type : Fine Aggregate

erence to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

e of test : 21-03-22

al weight taken : 1000 grams

Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
					Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
10 mm	0	0	0.0	100.0	100	100	100	100
4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
2.36 mm	51	77	7.7	92.3	60-95	75-100	85-100	95-100
1.18 mm	238	315	31.5	68.5	30-70	55-90	75-100	90-100
600 micron	201	516	51.6	48.4	15-34	35-59	60-79	80-100
300 micron	204	720	72.0	28.0	5-20	8-30	12-40	15-50
150 micron	192	912	91.2	8.8	0-10	0-10	0-10	0-15
Pan	88	1000	100.0	0.0	---	---	---	---

sult :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

ID	:	CP-2022-06-21-35
ject Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
ncy	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
tomer's Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
e of Receipt	:	21-03-22
nple Type	:	Sunvik
erence to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
e of test:	:	22-03-22

Date: 25-03-22

No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

he results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

: CP-2022-06-21-35

Date: 19-04-22

ame : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

: M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

r's Reference : BBMP/EE/YNK D/EPMT - 08/W.O/117/2021-22

teceipt : 15-04-22

Type /Size : Precast Cover Slab(230mm Thick)

to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

est : 15/04/2022

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	150.02	230.48	2.085	17673	390.2	22.1	20.5	25.7
Cover Slab-2	150.03	230.51	2.077	17675	401.5	22.7	21.1	26.4
Cover Slab-3	150.01	230.49	2.045	17670	397.4	22.5	20.9	26.1

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-06-21-35

Date: 28/04/2022

Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

: M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

er's Reference : BBMP/EE/YNK D/EPMT - 08/W.O/117/2021-22

Receipt : 04-04-22

er ID : Drain Bottom Raft- CQAL Layout(4st Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ice to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

test : 28/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft-CQAL Layout(4st Cross Road)	M20	31/03/2022	28/04/2022	149.90 X 149.31 X 149.76	22381	8.857	519.4	23.2	23.0
Drain Bottom Raft-CQAL Layout(4st Cross Road)	M20	31/03/2022	28/04/2022	150.82 X 149.21 X 150.44	22503	8.567	506.0	22.5	
Drain Bottom Raft-CQAL Layout(4st Cross Road)	M20	31/03/2022	28/04/2022	150.44 X 151.20 X 150.71	22746	8.904	532.9	23.4	

esults obtained are satisfactory as per standard requirements.

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	:	CP-2022-06-21-35
t Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
y	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
ner's Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
f Receipt	:	04-04-22
mer ID	:	Drain Side Wall - CQAL Layout(4st Cross Road)
e Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	30/04/2022

Date: 30/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - CQAL Layout(4st Cross Road)	M20	02/04/2022	30/04/2022	149.99 X 150.65 X 149.25	22596	8.910	531.6	23.5	23.3
Drain Side Wall - CQAL Layout(4st Cross Road)	M20	02/04/2022	30/04/2022	150.11 X 149.75 X 151.39	22478	8.492	507.1	22.6	
Drain Side Wall - CQAL Layout(4st Cross Road)	M20	02/04/2022	30/04/2022	151.24 X 149.79 X 151.67	22653	8.229	541.2	23.9	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-06-21-35
t Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
y	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
ner's Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
f Receipt	:	05-04-22
ner ID	:	Culvert Bottom Raft- CQAL Layout(1st Cross Road)
e Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	01/05/2022

Date: 02/05/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Bottom Raft-CQAL Layout(1st Cross Road)	M20	03/04/2022	01/05/2022	151.59 X 149.08 X 150.40	22599	8.860	536.0	23.7	23.3
Culvert Bottom Raft-CQAL Layout(1st Cross Road)	M20	03/04/2022	01/05/2022	150.63 X 151.48 X 149.38	22818	8.559	517.4	22.7	
Culvert Bottom Raft-CQAL Layout(1st Cross Road)	M20	03/04/2022	01/05/2022	150.51 X 151.14 X 151.00	22749	8.635	537.0	23.6	

results obtained are satisfactory as per standard requirements

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-06-21-35

Date: 04/05/2022

Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

: M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

ıer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

'Receipt : 07-04-22

ıer ID : Culvert Side Wall - CQAL Layout(1st Cross Road)

: Type /Size : 150X150X150 mm

: grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 03/05/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Side Wall - CQAL Layout(1st Cross Road)	M20	05/04/2022	03/05/2022	150.75 X 150.06 X 149.73	22621	8.193	532.5	23.5	23.1
Culvert Side Wall - CQAL Layout(1st Cross Road)	M20	05/04/2022	03/05/2022	150.01 X 149.45 X 150.22	22419	8.422	498.9	22.3	
Culvert Side Wall - CQAL Layout(1st Cross Road)	M20	05/04/2022	03/05/2022	149.67 X 151.29 X 149.07	22643	8.312	535.5	23.6	

results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2019-02-15-31 **Date: 27-04-22**

Project Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

Customer Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 25-04-22

Type of Mix : GSB (Granular Sub Base)

Date of test : 25-04-22

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	983	983	9.8	90.2	80-100
26.5	1681	2664	26.6	73.4	55-90
9.5	1287	3951	39.5	60.5	35-65
4.75	1502	5453	54.5	45.5	25-55
2.36	1698	7151	71.5	28.5	20-40
0.425	1664	8815	88.2	11.9	10-25
0.075	1049	9864	98.6	1.4	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.00%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

b ID : CP-RW-2022-06-21-35 Date: 04-05-22

oject Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

ency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

stomer Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

te of Receipt : 02-05-22

pe of Mix : WMM (Wet Mix Macadam)

te of test : 02-05-22

en Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	269	269	2.4	97.6	95-100
22.4	2239	2508	22.8	77.2	60-80
11.2	2165	4673	42.5	57.5	40-60
4.75	2248	6921	62.9	37.1	25-40
2.36	1625	8546	77.7	22.3	15-30
0.6	625	9171	83.4	16.6	8-22
0.075	1335	10506	95.5	4.5	0-5

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2022-06-21-35
Project Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
Agency	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
Date of Receipt	:	05-05-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	05-05-22
Oven Dry Weight	:	11000 Grams

Date: 07-05-22

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	293	293	2.7	97.3	95-100
22.4	2219	2512	22.8	77.2	60-80
11.2	2158	4670	42.5	57.5	40-60
4.75	2251	6921	62.9	37.1	25-40
2.36	1625	8546	77.7	22.3	15-30
0.6	610	9156	83.2	16.8	8-22
0.075	1368	10524	95.7	4.3	0-5

The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

ab ID : CP-RW-2022-06-21-35

Date: 07-05-22

roject Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

gency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

ustomer Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

ate of Receipt : 05-05-22

ype of Mix : WMM (Wet Mix Macadam)

ate of test : 05-05-22

ven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	312	312	2.8	97.2	95-100
22.4	2289	2601	23.6	76.4	60-80
11.2	2156	4757	43.2	56.8	40-60
4.75	2198	6955	63.2	36.8	25-40
2.36	1669	8624	78.4	21.6	15-30
0.6	599	9223	83.8	16.2	8-22
0.075	1329	10552	95.9	4.1	0-5

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

ab ID : CP-RW-2022-06-21-35

Date: 09-05-22

roject Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

gency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

ustomer Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

ate of Receipt : 07-05-22

ype of Mix : WMM (Wet Mix Macadam)

ate of test : 07-05-22

ven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	232	232	2.3	97.7	95-100
22.4	2133	2365	23.7	76.4	60-80
11.2	2365	4730	47.3	52.7	40-60
4.75	1321	6051	60.5	39.5	25-40
2.36	1886	7937	79.4	20.6	15-30
0.6	255	8192	81.9	18.1	8-22
0.075	1399	9591	95.9	4.1	0-5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

ID	:	CP-RW-2022-06-21-35 **Date: 04-05-22**
ject Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
ncy	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
stomer Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
te of Receipt	:	02-05-22
pe of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
te of test	:	02-05-22

sult:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	15.5%	
ombined Flakiness and Elongation Index for WMM	27.4%	

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

TERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

) ID	:	CP-RW-2022-06-21-35
ject Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
ency	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
stomer Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
te of Receipt	:	05-05-22
pe of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
te of test	:	05-05-22

Date: 07-05-22

sult:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	8.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.5%	
ombined Flakiness and Elongation Index for WMM	22.0%	

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

ID	:	CP-RW-2022-06-21-35
ject Name	:	Date: 09-05-22 Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
ency	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
stomer Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
te of Receipt	:	07-05-22
pe of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
te of test	:	07-05-22

sult:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.2%	
ombined Flakiness and Elongation Index for WMM	21.5%	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

ID	:	CP-RW-2022-06-21-35
ject Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
ncy	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
tomer Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
e of Receipt	:	07-05-22
ıe of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
e of test	:	07-05-22

Date: 09-05-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302 5	302.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	75.1	72.8
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	227.0	229.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0 4	0 6
5	Aggregate impact value	(B/A)*100	24.8	24.1
6	Aggregate impact value (Mean of two tests)	Pecentage	24 4	

The results obtained are satisfactory as per standard requirements

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2022-06-21-35

Date: 25-05-22

Project Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

Customer Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 22-05-22

Type of Mix : DBM(Dense Bitumnous Macadam)

Date of test : 22-05-22

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.5	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2022-06-21-35
Project Name	:	Date: 30-05-22 Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
Agency	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT - 08/W O/117/2021-22
Date of Receipt	:	27-05-22
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	27-05-22

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-S
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2022-06-21-35

Date: 04-06-22

Project Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sanagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO - 13)

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No. 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

Customer Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 03-06-22

Type of Mix : BC (Bituminous Concrete) Sai Nagara Phase -I 1st Cross

Date of test : 03-06-22

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B \times 100}{A}$	5.60	5.80
4	Average percentage	%	5.7	

CIVIL Pro Sig..... Date.. BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Lab ID : 477

Date: 06-06-22

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	18	18	3.77	96.2	90-100
19	101	119	24.95	75.1	71-95
13.2	73	192	40.25	59.7	56-80
4.75	86	278	58.28	41.7	38-54
2.36	59	337	70.65	29.4	28-42
0.3	86	423	88.68	11.3	7-21
0.075	29	452	94.76	5.2	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	20	20	4.18	95.8	90-100
19	102	122	25.52	74.5	71-95
13.2	72	194	40.59	59.4	56-80
4.75	85	279	58.37	41.6	38-54
2.36	61	340	71.13	28.9	28-42
0.3	83	423	88.49	11.5	7-21
0.075	31	454	94.98	5.0	2-8

* The results obtained are satisfactory as per standard requirements

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

b ID : CP-RW-2022-06-21-35 Date: 07-06-22

oject Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Munirazu Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

gency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh. No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

ustomer Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

ate of Receipt : 06-06-22

ype of Mix : BC (Bituminous Concrete) Sai Nagara Phase -3 3rd Cross

ate of test : 06-06-22

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.40
4	Average percentage	%	5.6	

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Quality Manager

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2022-06-21-35 Date: 09-06-22
Project Name	:	Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
Agency	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
Date of Receipt	:	08-06-22
Type of Mix	:	DBM (Dense Bituminous Macadam) Muni Raju Layout Main Road
Date of test	:	08-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	476	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	4.6
4	Average percentage	%	4.7	

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2022-06-21-35

Date: 10-06-22

Project Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

Customer Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 09-06-22

Type of Mix : BC (Bituminous Concrete) Muni Raju Layout Main Road

Date of test : 09-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	A-B X 100 / A	5.40	5.60
4	Average percentage	%	5.5	

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e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2022-06-21-35

Project Name : Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)

Date: 13-06-22

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064

Customer Reference : BBMP/EE/YNK D/EPMT - 08/W O/117/2021-22

Date of Receipt : 11-06-22

Type of Mix : Tack coat

Date of test : 11-06-22

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.025
6	Rate of spread of tack coat	Kg/sq m	0.278	0.278
7	Average	Kg/sq m	0.278	
8	Specified Limit	Kg/sq m	0.250 Kg/sq m	

* The results obtained are satisfactory as per standard requirements

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Certificate No.: TC-5548

Lab ID : CP-RW-2022-06-21-35

Date: 13-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	18	18	3.8	96.2	90-100
9.5	55	73	15.5	84.5	70-88
4.75	134	207	43.9	56.1	53-71
2.36	58	265	56.1	43.9	42-58
1.18	22	287	60.8	39.2	34-48
0.6	11	298	63.1	36.9	26-38
0.3	62	360	76.3	23.7	18-28
0.15	38	398	84.3	15.7	12-20
0.075	52	450	95.3	4.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	19	19	4.0	96.0	90-100
9.5	52	71	15.0	85.0	70-88
4.75	135	206	43.6	56.4	53-71
2.36	59	265	56.1	43.9	42-58
1.18	21	286	60.6	39.4	34-48
0.6	12	298	63.1	36.9	26-38
0.3	65	363	76.9	23.1	18-28
0.15	42	405	85.8	14.2	12-20
0.075	50	455	96.4	3.6	4-10

- The results obtained are satisfactory as per standard requirements

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON THERMOPLASTIC COMPOUND

Lab ID	:	**CP-2022-06-21-35**
Project Name	:	**Date: 14-06-22** Restoration and Improvements of Balance roads of Chowdeshwari Layout, Maniyappa Layout, Munirazu Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)
Agency	:	M/S SATHYA CONSTRUCTIONS, Prop Rajeshwaran Satheesh, No. 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT - 08/W O/117/2021-22
Date of Receipt	:	09-06-22
Sample Type	:	Thermoplastic Compound
Reference to BIS codes	:	ASTM D36/BS-3262-(Part-I)
Date of test	:	09-06-22

Test Results

Sl.no	Name of Test	Result	Requirements as per Morth 803
1	Colour	White	White/Yellow
2	Softening Point	109°C - 110.5°C	102.5±9.5°C as Per ASTM D 36
3	Luminance Factor	Sartisfactory	White: Daylight Luminanceat 45-65 Percent min. as per AASHTO M 249 Yellow: Daylight lumunanace at 45-45 percent min. as per AASHTO M 249
4	Cracking Resistance	No Cracks found on application	The Material shall show no Cracks on application
5	Skid Resistance	48	Not Less than 45 as per BS 6044
6	Yellow Index (For White Thermoplastic Plant)	0.09	Not More than 0.12 as per AASHTO M 249
7	Drying Time	14	When Applied at a temperature specified by the manufacture and to the required thickness, the material shall meet to heat traffic in not more than 15 minutes
8	Binder Content % by Weight	20%	White & yellow 18 minutes as per Section 800 in Table 800-9
9	Glass Beads Content % by Weight	30	30-30

• The results obtained are satisfactory as per standard requirements.

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Page 1/1
End of Report****

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